

Amendment
Serial No. 09/935,235

Docket No. DE000126

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IN THE CLAIMS:

Kindly replace the claims of record with the following full set of claims:

1. (Currently amended) A method of controlling function units of a motorcar, or of devices (1a, 1b) installed in a motorcar, by means of speech signals, the method comprising the steps of:

receiving acoustic signals occurring in the motorcar, which contain noise signal portions ~~that depend on the operating state and/or operation environment of the motorcar~~ and speech signal portions, and

applying the received acoustic signals to a speech recognition system (3), the speech recognition system using acoustic references (8) which are selected ~~and/or adapted~~ in dependence on ~~estimated noise component introduced by the operating state and/or operation environment to determine an estimate of noise signal portions, and wherein said~~

adapting the estimate of noise signal portions ~~estimated noise component~~ ~~is determine~~ during at least one period containing a noise signal portion but no speech signal portion.

2. (Cancelled)

3. (Currently amended) A method as claimed in claim [[2]] 1, wherein an adaptation is provided (22, 32-1, ... 32-n) of the selected acoustic ~~basic~~ references in dependence on the operating state and/or operation environment of the motorcar.

4. (Currently amended) A method as claimed in claim 1, wherein ~~for the speech-pause modeling,~~ acoustic basic references are combined (33) in dependence on the operating state and/or operation environment of the motorcar.

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5. (Previously presented) A method as claimed in claim 1, further comprising the step of:

determining operating state and/or operation environment of the motorcar by reading from an on-board computer (11) of the motorcar and/or by means of one or more detectors (13) installed in the motorcar.

6. (Previously presented) A method as claimed in claim 1, wherein parts of a vocabulary (9) of the speech recognition system (3) are determined (13) that represent speech control signals that have their effect on the control of function units of the motorcar or on devices installed inside the motorcar.

7. (Currently amended) An arrangement for controlling function units of a motorcar, or of devices (1a, 1b) installed in a motorcar by means of speech signals, the arrangement comprising:

at least one microphone (2) for converting acoustic signals occurring in the motorcar, which acoustic signals contain noise signal portions ~~that depend on the operating state and/or operation environment of the motorcar and~~ [[, as the case may be,]] speech signal portions, and

a speech recognition system (3) coupled to the microphone (2) for ~~recognizing speech signal portions of the acoustic signals, receiving the acoustic signals and at least one of a plurality of while~~ receiving the acoustic signals and at least one of a plurality of ~~while~~ acoustic references (8) ~~used by the speech recognition system (3) are selected and/or adapted in dependence on estimated noise component introduced by the operating state and/or operation environment to determine an estimate of noise signal portions an estimated noise component, and~~ adapted in dependence on estimated noise component introduced by the operating state and/or operation environment to determine an estimate of noise signal portions an estimated noise component, and wherein ~~adapting said estimate of noise signal portions estimated noise component is determine during~~ adapting said estimate of noise signal portions estimated noise component is determined during at least one period containing a noise signal portion but no speech signal portion.

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8. (Currently amended) A method of controlling a device via speech signals, in which acoustic signals, which contain noise signal portions ~~that depend on the operating state of the device and/or the operation environment of the device and, as the case may be,~~ speech signal portions, are applied to a speech recognition system and the speech recognition system uses acoustic references which are selected ~~and/or adapted in dependence on estimated noise component introduced by the operating state and/or operation environment of the device to~~ determine an estimate of the noise signal portions, wherein and adapting said the estimate of the estimated noise signal portions ~~component is determine during~~ at least one period containing a noise signal portion but no speech signal portion.

9. (Currently amended) An arrangement comprising a device controllable via speech signals, wherein acoustic signals which contain at least noise signal portions ~~that depend on the operating state and/or the operation environment of the device~~ speech signal portions, are applied to a speech recognition system and the speech recognition system uses acoustic references which are selected ~~and/or adapted in dependence on estimated noise component introduced by of the operating state and/or operation environment of the device to~~ determine an estimate of the noise signal portions, wherein and adapting said estimated noise signal portions ~~estimated noise component is determine during~~ at least one period containing a noise signal portion but no speech signal portion.